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47382 077202010 Carmen Patti 1750 One N. LaSalle Street 44th Floor Chicago, II. 60602			EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/768,431 BARCLAY ET AL. Office Action Summary Examiner Art Unit OLUMIDE T. AJIBADE AKONAI 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 29 June 2010. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 and 22-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 and 22-26 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 29, 2010 has been entered.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-17 and 22-26 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 claims a network component can comprise a "biological storage medium". However, a "biological medium" encompasses non-statutory material since it covers all kinds of biological mediums such as plants, water, or human tissues/organisms, which do not fall under any of the four categories under 35 U.S.C. § 101 deemed to be appropriate subject matter of a patent: processes, machines, manufactures and compositions of matter (See, e.g., Alapatt, 33 F.3d at 1342, 31 USPQ2d at 1556; In re Wamerdam, 33 F.3d 1354, 31 USPQ2d 1754, 1757 (Fed Cir. 1994)). Claim 1 is therefore directed to non-statutory subject matter under 35 U.S.C. § 101. Claims 2-17 and 22-26 are rejected under 35 U.S.C. § 101 by virtue of their dependency on claim 1.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 18, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by
Lin 20020025824.

Regarding claim 1, Lin discloses an apparatus, comprising: a network component (see fig. 1, p.2, [0032]) operable to employ a) one or more call characteristics to make a determination to initiate a request to a switch component for one or more positions of one or more mobile stations (p.5, [0072]-[0073]; phone number may be used, or a call requested, to thereby obtain a location information from a switch (base station)) and b) one or more call parameters to identify one or more cellular network cells associated with the one or more mobile stations (p.5, [0072]), wherein at least one of the one or more call parameters employed to identify one of the one or more cellular network cells is a telephony number of at least one of the one or more mobile stations (initiating a call would necessitate a correct location, wherein calling a phone results in obtaining location, the phone number called would be associated with a location area identifier, see p.3-4, [0052]-[0054]); and wherein the network component is operable to receive, in response to the request, the one or more positions of the one or more mobile stations from a position component operable to determine the one or more

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positions of the one or more mobile stations continuously (see p.5, [0071]-[0075], especially [0073] wherein it indicates that the location is updated continuously); and wherein the network component comprises one of a magnetic, optical, biological, or atomic data storage medium (see fig. 1, p.2, [0032]).

Regarding claim 18, Lin discloses a method, comprising the steps of: initiating a request from a network component to a switch component for one or more positions of one or more mobile stations through employment of a) one or more call characteristics (p.5, [0072]-[0073]; phone number may be used, or a call requested, to thereby obtain a location information from a switch (base station)) and b) one or more call parameters to identify one or more cellular network cells associated with the one or more mobile stations (p.5, [0072]), wherein at least one of the one or more call parameters employed to identify one of the one or more cellular network cells is a telephony number of at least one of the one or more mobile stations (initiating a call would necessitate a correct location, wherein calling a phone results in obtaining location, the phone number called would be associated with a location area identifier, see p.3-4, [0052]-[0054]); receiving, in response to the request, the one or more positions of the one or more mobile stations (see p.5, [0071]-[0075], especially [0073] wherein it indicates that the location is updated continuously); and determining the one or more positions of the one or more mobile stations continuously (see p.5, [0071]-[0075], especially [0073] wherein it indicates that the location is updated continuously); wherein the network component comprises one of a magnetic, optical, biological, or atomic data storage medium (see fig. 1, p.2, [0032]).

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Regarding claim 24 as applied to claim 1, Lin further discloses a network component that that is operable to employ one or more call parameters to identify one or more cellular network cells associated with the one or more mobile stations (see p.5, [0071]-[0074]).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 2-17, 19, 20, 23, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin 20020025824 in view of O'Donnell 6.266.514.

Regarding claim 2 as applied to claim 1, Lin discloses the claimed limitation except discloses wherein the network component is operable to perform a comparison of the one or more call characteristics with one or more thresholds to make the

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determination to initiate the request for the one or more positions of the one or more mobile stations.

In the same field of endeavor, O'Donnell discloses a network component (base station controller BSC, see figs. 3, lines 33-38) operable to perform a comparison of the one or more call characteristics (measurements are compared to specified threshold values, signal strength, see col. 6, lines 6-23, 39-46) with one or more thresholds (see col. 6, lines 6-23) to make the determination to initiate the request for the one or more positions of one or more mobile stations (BSC requests for the position of mobile station 4 if the signal strength falls below a specified threshold value, see figs. 3 and 4, col. 6, lines 6-38).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of O'Donnell into the system of Lin by requesting for a position of a mobile device based on the RSSI of the mobile station, for the benefit of identifying areas in a network with poor network coverage.

Regarding claim 3 as applied to claim 2, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the one or more call characteristics comprise a pilot signal strength characteristic (signal strength, see col. 6, lines 39-46), and wherein the one or more thresholds comprise a pilot signal strength threshold (see col. 6, lines 6-23), and wherein the network component (base station controller BSC, see figs. 3, lines 33-38) is operable to perform a comparison of the pilot signal strength characteristic with the pilot signal strength threshold (measurements are compared to specified signal strength threshold values, see col. 6, lines 6-23, 39-46);

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and wherein the network component makes the determination to initiate the request for the one or more positions of the one or more mobile stations based on a result of the comparison of the pilot signal strength characteristic with the pilot signal strength threshold (BSC requests for the position of mobile station 4 if the signal strength falls below a specified threshold value, see figs. 3 and 4, col. 6, lines 6-38).

Regarding claim 4 as applied to claim 2, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) is operable to perform the one or more call characteristics (signal strength, see col. 6, lines 39-46) to create one or more call statistics (dropped calls see col. 6, lines 60-63), and wherein the one or more thresholds comprise one or more call characteristic thresholds (see col. 6, lines 6-23) and one or more call statistic thresholds (accumulation of dropped calls, see col. 6, lines 60-67, col. 7, lines 1-7); and wherein the network component is operable to perform a comparison of the one or more call statistics with the one or more call statistic thresholds (when dropped calls are identified, the positioning function of the BSC is activated to determine the location of the mobile station, see col. 6, lines 60-67, col. 7, lines 1-9); and wherein the network component is operable to perform a comparison of the one or more call characteristics with the one or more call characteristic thresholds (measurements are compared to specified signal strength threshold values, see col. 6, lines 6-23, 39-46) and the comparison of the one or more call statistics with the one or more call statistic thresholds to make the determination to initiate the request (when

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dropped calls are identified, the positioning function of the BSC is activated to determine the location of the mobile station, see col. 6, lines 60-67, col. 7, lines 1-9).

Regarding claim 5 as applied to claim 2, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) comprises an interface (inherent since the BSC receives one or more quality characteristic threshold levels from the operations and management center, OMC 1, thereby requiring that the BSC have an interface to receive the threshold values from the OMC, see figs. 3 and 4, col. 3, lines 60-66), and wherein the network component is operable to receive the one or more thresholds from a service provider (operations and management center, OMC 1, see figs. 3 and 4, col. 3, lines 60-66) through employment of the interface (BSC receives one or more quality characteristic threshold levels from the operations and management center, OMC 1, see figs. 3 and 4, col. 3, lines 60-66).

Regarding **claim 6** as applied to claim 1, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) is operable to employ the determination to initiate the request to promote an avoidance of congestion in one or more cellular network communication paths (automatically mapping the areas of poor coverage helps in that minimal loading is required on the current system, see col. 7, lines 36-47).

Regarding claim 7 as applied to claim 6, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component

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(base station controller BSC, see figs. 3, lines 33-38) makes the determination to initiate the request upon an exceedance of the one or more call characteristics relative to one or more thresholds (BSC requests for the position of mobile station 4 if the signal strength is above a specified threshold value, see figs. 3 and 4, col. 6, lines 6-38); and wherein upon the exceedance of the one or more call characteristics relative to the one or more thresholds, the network component and the position component (GPS receiver 220, see fig. 2, col. 5, line 6) are operable to cooperate to obtain the one or more positions of the one or more mobile stations (see col. 4, lines 66-67, col. 5, lines 1-7).

Regarding claim 8 as applied to claim 7, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein upon a termination of the exceedance of the one or more call characteristics relative to the one or more thresholds (see col. 5, lines 33-59), the network component (base station controller BSC, see figs. 3, lines 33-38) and the position component (GPS receiver 220, see fig. 2, col. 5, line 6) are operable to cooperate to discontinue attainment of the one or more positions of the one or more mobile stations (see col. 5, lines 33-59).

Regarding claim 9 as applied to claim 1, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) is operable to employ the one or more call characteristics (signal strength, see col. 6, lines 39-46) to perform a selection of the one or more mobile stations from a plurality of mobile stations (mobile stations 4 transmit signal quality measurements to the BSC and if the measured signal strength is below of above a threshold value, the BSC identifies the location of the associated

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mobile station 9, see figs. 3 and 4, col. 6, lines 6-23), and wherein the network component is operable to employ the selection to formulate the request for the one or more positions of the one or more mobile stations from the plurality of mobile stations (see figs. 3 and 4, col. 6, lines 6-23).

Regarding **claim 10** as applied to claim 1, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the one or more mobile stations (mobile stations 4, see fig. 3, col. 6, line 11) are associated with the one or more cellular network cells (see col. 5, lines 60-67, col. 6, lines 1-5); and wherein the network component (base station controller BSC, see figs. 3, lines 33-38) is operable to employ the one or more call characteristics (signal strength, see col. 6, lines 39-46) to perform a selection of the one or more cellular network cells from a plurality of cellular network cells (mobile stations 4 transmit signal quality measurements to the BSC and if the measured signal strength is below of above a threshold value, the BSC identifies the location of the associated mobile station 9, see figs. 3 and 4, col. 5, lines 60-67, col. 6, lines 1-23); and wherein the network component is operable to employ the selection to formulate the request for the one or more positions of the one or more mobile stations that are associated with the one or more cellular network cells (see figs. 3 and 4, col. 6, lines 6-23).

Regarding claim 11 as applied to claim 10, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) is operable to employ the switch component (mobile switching center MSC, see col. 5, lines 40-42) to identify

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the one or more mobile stations that are associated with the one or more cellular network cells (see col. 5, lines 32-49); and wherein the network component is operable to employ the switch component to determine the one or more positions of the one or more mobile stations that are associated with the one or more cellular network cells (see col. 5, lines 32-49).

Regarding claim 12 as applied to claim 1, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) receives the one or more positions of the one or more mobile stations in response to the request (mobile station transmits location information to the BSC, see figs. 3 and 4, col. 6, lines 24-28); and wherein the network component is operable to is operable to employ the one or more positions of the one or more mobile stations and the one or more call characteristics to develop a coverage map (the determined geographical can be mapped to provide a visual representation of areas with poor coverage, see col. 4, lines 45-52).

Regarding claim 13 as applied to claim 1, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses the switch component (mobile switching center MSC, see col. 5, lines 40-42) that provides the one or more call characteristics (signal strength, see col. 6, lines 39-46) to the network component (base station controller BSC, see figs. 3, lines 33-38), wherein the network component is operable to employ the one or more call characteristics to make a determination to initiate a request to the switch component (BSC requests for the position of mobile station 4 if the signal strength falls below a specified threshold value, see figs. 3 and 4,

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col. 6, lines 6-38); and wherein the switch component is operable to employ to obtain the one or more positions of the one or more mobile stations based on the request to the switch component (see col. 5, lines 33-49).

Regarding claim 14 as applied to claim 13, Lin further discloses wherein the network component (see fig. 1, p.2, [0032]) provides to the switch component one or more call parameters (see p.5, [0071]-[0074]); wherein the switch component employ is operable to employ the one or more call parameters to perform an identification of the one or more mobile stations from a plurality of mobile stations; (see p.5, [0071]-[0074]) wherein the switch component is operable to employ the identification of the one or more mobile stations from the plurality of mobile stations to obtain the one or more positions of the one or more mobile stations (see p.5, [0071]-[0074]).

Regarding claim 15 as applied to claim 14, Lin further discloses wherein the one or more mobile stations are associated with one or more calls (see p.5, [0071]-[0074]); wherein the switch component is operable to employ the one or more call parameters to perform an identification of the one or more calls from a plurality of calls (see p.5, [0071]-[0074]); wherein the switch component employs the identification of the one or more calls from the plurality of calls to obtain the one or more positions of the one or more mobile stations that are associated with the one or more calls (see p.5, [0071]-[0074]).

Regarding **claim 16** as applied to claim 13, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the network component (base station controller BSC, see figs. 3, lines 33-38) and the switch

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component (mobile switching center MSC, see col. 5, lines 40-42) are operable to receive the one or more positions of the one or more mobile stations from the position component (the MSC and BSC receive the current location of the mobile station, see col. 5, lines 33-49, col. 6, lines 38); and wherein the network component and the switch component are operable to cooperate to develop a coverage map through employment of the one or more positions of the one or more mobile stations (see col. 5, lines 49-52, col. 6, lines 32-38).

Regarding claim 17 as applied to claim 16, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the position component (GPS 220, see fig. 2, col. 5, line 6) is operable to employ one or more of an Enhanced Forward Link Trilateration algorithm and an 1S-80l solution using an Assisted Global Positioning System (AGPS), Advanced Forward Link Trilateration (AFLT) or combined AGPS/MLT algorithm to determine the one or more positions of the one or more mobile stations (the position of the mobile station can be determined using the GPS receiver in the mobile station or by employing triangulation, see col. 5, lines 2-19, col. 6. lines 24-32).

Regarding claim 19, as applied to claim 18, Lin discloses the claimed limitation, but does not specifically disclose wherein the step of initiating the request from the network component to the switch component for the one or more positions of the one or more mobile stations through employment of the one or more call characteristics further comprises the steps of: performing a comparison of the one or more call characteristics

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with one or more thresholds, and initiating the request for the one or more positions of the one or more mobile stations based on the comparison.

In the same field of endeavor, O'Donnell further discloses wherein the step of initiating the request from the network component to the switch component for the one or more positions of the one or more mobile stations through employment of the one or more call characteristics further comprises the steps of: performing a comparison of the one or more call characteristics with one or more thresholds (BSC requests for the position of mobile station 4 if the signal strength falls below a specified threshold value, see figs. 3 and 4, col. 6, lines 6-38), and initiating the request for the one or more positions of the one or more mobile stations based on the comparison (BSC requests for the position of mobile station 4 if the signal strength falls below a specified threshold value, see figs. 3 and 4, col. 6, lines 6-38).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of O'Donnell into the system of Lin by requesting for a position of a mobile device based on the RSSI of the mobile station, for the benefit of identifying areas in a network with poor network coverage.

Regarding claim 20, as applied to claim 19, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the step of initiating the request from the network component to the switch component for the one or more positions of the one or more mobile stations based on the comparison further comprises the steps of: determining the one or more call parameters (BSC compiles the mobile station identification, see col. 6, lines 32-35) associated with the one or more thresholds

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(see col. 6, line 32-38), identifying the one or more mobile stations from a plurality of mobile stations through employment of the one or more call parameters (see col. 6, line 32-38); and initiating the request for the one or more positions of the one or more mobile stations through employment of the one or more call parameters (BSC requests for the position of mobile station 4 if the signal strength falls below a specified threshold value, see figs. 3 and 4, col. 6, lines 6-38).

Regarding **claim 23** as applied to claim 5, Lin as modified by O'Donnell discloses the claimed limitation. O'Donnell further discloses wherein the thresholds provide a measure of a quality of service provided to the one or more mobile stations (visual representation of service levels, see col. 6 lines 33-39).

Regarding claim 25 as applied to claim 1, Lin discloses the claimed limitation except wherein the network component limits a number of requests for the one or more positions of the one or more mobile stations based upon a comparison of the one or more call characteristics with one or more thresholds. However, O'Donnell further discloses wherein the network component limits a number of requests for the one or more positions of the one or more mobile stations based upon a comparison of the one or more call characteristics with one or more thresholds (limiting the number of requests made by the BSC for the position of mobile stations by adjusting the threshold levels of the signal strength in the cells such that the number of requests is limited based on increasing/decreasing the specified signal quality threshold of the cells, see col. 5, lines 52-67, col. 6, lines 1-28)

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Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin
20020025824 in view of O'Donnell 6,266,514 as applied to claim 16 above and further in view of Alperovich et al 6,233,448 (hereinafter Alperovich).

Regarding **claim 22** as applied to claim 16, Lin as modified by O'Donnell, discloses the claimed limitation except wherein the position determination component is pre-provisioned with one or more intervals of time to determine the one or more positions of the one or more mobile stations.

Alperovich, however, discloses a position determination component that is pre-provisioned with one or more intervals of time to determine the one or more positions of the one or more mobile stations (see fig. 1, col. 3, lines 29-64).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Alperovich into the system of Lin as modified by O'Donnell for the benefit of determining the current position of a mobile station.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over over Lin
20020025824 in view of O'Donnell 6,266,514 as applied to claim 4 above, and further in view of Powers et al 6,832,086 (hereinafter Powers).

Regarding **claim 25** as applied to claim 4, Lin as modified by O'Donnell disclose the claimed limitation except wherein on of the one or more call statistics is a number of dropped calls within an hour.

In the same field of endeavor, Powers discloses a network component that create call statistics, wherein the call statistics is a number of dropped calls within an Art Unit: 2617

hour (BSC determining a number of dropped calls within an hour, see figs. 1-4, col. 5, lines 25-31).

It would therefore have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Powers, by using the BSC to determine a number of dropped calls within an hour in a cell/area, into the system of Lin as modified by O'Donnell for the benefit of benefit of taking corrective/preventive action in the cell/area to reduce the number of dropped calls in the cell/area.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Olumide T Ajibade-Akonai/ Examiner, Art Unit 2617